COMPUTATION OF COORDINATES AND HEIGHT FROM AZIMUTH, DISTANCE, AND VERTICAL ANGLE (FED MSR)

For use of this form, see FM 6-2; the proponent agency is TRADOC.

COMPUTER:	NOTEBOOK REFERENCE:	DATE:
CHECKER:	AREA:	SHEET OF SHEETS

INSTRUCTIONS	NOTES
1. Select SURVEY CALC (option B) from the MODE MENU. 2. Select TRAVERSE (option B) from the SURVEY CALCULATIONS MENU. 3. Select the desired record from the TRAVERSE SUMMARY LIST. 4. Observe the required fields, and enter the desired data.	1. Press ENTER to display the window of legal entries. 2. Enter field data in blocks marked ▶_____. 3. Step MAIN/OFFSET is not required for first leg. 4. Remove window of legal entries by pressing ENTER before pressing the C key to calculate.

REQUIRED FIELDS	DATA RECORD	
ENTER NAME REAR STA: ?	NAME REAR STA:	NAME REAR STA:
ENTER NAME OCC STA: ?	NAME OCC STA: NUMBER:	NAME OCC STA: NUMBER:
ENTER EAST OCC STA: ?	EASTING:	EASTING:
ENTER NORTH OCC STA: ?	NORTHING:	NORTHING:
ENTER HEIGHT OCC STA: ?	HEIGHT:	HEIGHT:
ENTER AZIMUTH TO REAR: ?	AZ TO REAR (MILS):	AZ TO REAR (MILS):

REQUIRED FIELDS	DATA RECORD	
ENTER NAME FWD STA: ?	NAME FWD STA:	NAME FWD STA:
MAIN/OFFSET: ?(SEE NOTE 3)	(MAIN) (OFFSET)	(MAIN) (OFFSET)
ENTER HORZ ANGLE TO FWD STA: ?	▶HORZ ANGLE (MILS):	▶HORZ ANGLE (MILS):
ENTER VERT ANGLE TO FWD STA: ?	▶VERT ANGLE (MILS): ±	▶VERT ANGLE (MILS): ±
RECIPROCAL VERT ANGLE (Y/N)	(RECIPROCAL) (NONRECIPROCAL)	(RECIPROCAL) (NONRECIPROCAL)
HORZ OR SLOPE DIST: ?	▶DISTANCE: (HORZ) (SLOPE)	▶DISTANCE: (HORZ) (SLOPE)

REQUIRED FIELDS	DATA RECORD	
RECORD NAME REAR STA: ?	NAME REAR STA:	NAME REAR STA:
RECORD NAME OCC STA: ?	NAME OCC STA:	NAME OCC STA:
RECORD EAST OCC STA: ?	EASTING:	EASTING:
RECORD NORTH OCC STA: ?	NORTHING:	NORTHING:
RECORD HEIGHT OCC STA: ?	HEIGHT:	HEIGHT:
RECORD AZIMUTH TO REAR: ?	AZ TO REAR (MILS):	AZ TO REAR (MILS):

REQUIRED FIELDS	DATA RECORD	
ENTER NAME FWD STA: ?	NAME FWD STA:	NAME FWD STA:
MAIN/OFFSET: ?(SEE NOTE 3)	(MAIN) (OFFSET)	(MAIN) (OFFSET)
ENTER HORZ ANGLE TO FWD STA: ?	▶HORZ ANGLE (MILS):	▶HORZ ANGLE (MILS):
ENTER VERT ANGLE TO FWD STA: ?	▶VERT ANGLE (MILS): ±	▶VERT ANGLE (MILS): ±
RECIPROCAL VERT ANGLE (Y/N)	(RECIPROCAL) (NONRECIPROCAL)	(RECIPROCAL) (NONRECIPROCAL)
HORZ OR SLOPE DIST: ?	▶DISTANCE: (HORZ) (SLOPE)	▶DISTANCE: (HORZ) (SLOPE)

REMARKS:

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CLOSURE/ADJUSTMENT

INSTRUCTIONS	NOTES
	1. Observe closure screen by pressing the T key. 2. Remove window of legal entries by pressing ENTER before pressing the C key to calculate. 3. Press the T key when in the complete closure screen to view adjusted traverse data.

REQUIRED FIELDS	DATA RECORDS	
	CLOSURE DATA	ADJUSTED DATA
ENTER CLOSING ANGLE: ?	CLOSING ANGLE (MILS):	STATION NAME:
ENTER AZIMUTH FWD STA: ?	KNOWN AZ FORWARD (MILS):	EASTING:
ENTER HEIGHT CLOSING STA: ?	KNOWN HEIGHT (METERS):	NORTHING:
ENTER EAST CLOSING STA: ?	KNOWN EASTING:	HEIGHT (METERS):
ENTER NORTH CLOSING STA: ?	KNOWN NORTHING:	ADJUSTED AZ TO REAR (MILS):
ENTER 4TH/5TH ORDER: ?	4 OR 5	
PRESS ENTER THEN C KEY TO CALCULATE		

REQUIRED FIELDS	DATA RECORDS	
RECORD CMPT AZ FWD:	CMPT AZ FORWARD (MILS):	STATION NAME:
RECORD TOTAL AZ CORRECTION:	TOTAL AZ CORRECTION (MILS):	EASTING:
RECORD TOTAL HEIGHT CORRECTION:	TOTAL HEIGHT CORRECTION (METERS):	NORTHING:
RECORD TOTAL TRAVERSE LENGTH:	TOTAL TRAVERSE LENGTH (METERS):	HEIGHT (METERS):
RECORD RADIAL ERROR:	RADIAL ERROR (METERS):	ADJUSTED AZ TO REAR (MILS):
RECORD ACCURACY RATIO:	ACCURACY RATIO:	

ADJUSTED DATA		
REQUIRED FIELDS	DATA RECORDS	
RECORD STATION NAME:	STATION NAME:	STATION NAME:
RECORD STATION EASTING:	EASTING:	EASTING:
RECORD STATION NORTHING:	NORTHING:	NORTHING:
RECORD STATION HEIGHT:	HEIGHT (METERS):	HEIGHT (METERS):
RECORD AZ TO REAR:	ADJUSTED AZ TO REAR (MILS):	ADJUSTED AZ TO REAR (MILS):

REMARKS:

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